# EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L4 | 373 | (chamber with (substrate or wafer)) and ((liner or shield) same ((heat or radiation) with (reflect or (low near$3 emission)))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/27 16:58 |
| L5 | 1 | 4 and (radiation adj emission adj coefficient) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/27 12:55 |
| L6 | 10 | 4 and (radiation adj emission) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/27 12:56 |
| L7 | 0 | 4 and ((low or non) adj (reflect or emissive)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/27 13:13 |
| L8 | 7406 | Teflon with (insulat$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/27 14:13 |
| L9 | 130 | 8 and (teflon with screw) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/27 14:14 |
| L10 | 10 | 9 and (chamber with (substrate or wafer)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/27 15:14 |
| L11 | 11 | radiation adj emission adj coefficient | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/27 15:14 |

# EAST Search History

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|---|---|---|---|---|---|---|
| L12 | 5 | (chamber with (substrate or wafer)) and ((liner or shield) same (polish$2 near aluminum)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/27 17:01 |
| L13 | 79 | ((liner or shield) same (polish$2 near aluminum)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/27 17:01 |
| L14 | 71 | ((liner or shield) same (polish$2 adj aluminum)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/27 18:22 |
| L15 | 6 | "5885356".pn. or "5328556".pn. or "6096161".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/27 18:23 |
| S1 | 12 | "5788799".pn. or "5798016".pn. or "5283414".pn. "6055927".pn. "4430547".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/08 12:10 |
| S2 | 10447 | 156/345.35,345.37.ccls. 134/1/1, 104.1.ccls. 216/67.ccls. 438/730. ccls. 219/121.43,121.54,121.51, 411.ccls. 315/111.81.ccls. 118/723mp,724,725.ccls. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/08 13:44 |
| S3 | 41 | (chamber vessel tank container reactor) and (support susceptor table) and (substrate wafer object) and ((heater heating) near (liner jacket)) and (fluorine same (aluminum titanium)) (bias adj means) and (etching near source) and (passivation near source) and (heater near (fasten$ attach$)) and (temperature near (regulator control)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/08 12:40 |

| S4 | 1 | S2 and S3 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/08 12:38 |
|---|---|---|---|---|---|---|
| S5 | 41 | (chamber vessel tank container reactor) and (support susceptor table) and (substrate wafer object) and ((heater heating) near (liner jacket)) and (fluorine same (aluminum titanium)) (bias adj means) and (etching near source) and (passivation near source) and (heater near (fasten$ attach$)) and (temperature near (regulator control)) and plasma | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/08 13:30 |
| S6 | 7 | plasma and S5 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/08 13:26 |
| S7 | 0 | plasma and etching and reactor and (heater adj (liner or jacket)) and controller and (substrate or wafer) near (holder or susceptor) and electrodes | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/08 13:48 |
| S8 | 0 | plasma and etching and (reactor or vessel or tank or container) and (heater adj (liner or jacket)) and controller and (substrate or wafer) near (holder or susceptor) and electrodes | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/08 13:49 |
| S9 | 29354 | plasma and etching and (reactor or vessel or tank or container) or (heater adj (liner or jacket)) and controller and (substrate or wafer) near (holder or susceptor) and electrodes | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/08 13:50 |
| S10 | 1827 | S2 and S9 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/08 13:51 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S11 | 534 | S10 and electrostatic | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 13:52 |
| S12 | 22 | S11 and fastener | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/13 13:24 |
| S13 | 10454 | 156/345.35,345.37.ccls. 134/1/1,<br>104.1.ccls. 216/67.ccls. 438/730.<br>ccls. 219/121.43,121.54,121.51,<br>411.ccls. 315/111.81.ccls.<br>118/723mp,724,725.ccls. | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/13 13:40 |
| S14 | 29400 | plasma and etching and (reactor or<br>vessel or tank or container) or<br>(heater adj (liner or jacket)) and<br>controller and (substrate or wafer)<br>near (holder or susceptor) and<br>electrodes | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/13 13:48 |
| S15 | 1827 | S13 and S14 | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/13 13:40 |
| S23 | 0 | fluorine and passivation and<br>(condensation near plasma) and<br>(heated near continuously) and<br>etching | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/13 13:52 |
| S24 | 0 | fluorine and (condensation near<br>plasma) and (heated near<br>continuously) and etching | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/13 13:52 |
| S25 | 0 | S15 and ((fluorine near etching)<br>and (heat$3 near continuous$3)) | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/13 13:56 |

# EAST Search History

| S26 | 688 | S15 and fluorine | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/13 13:57 |
|-----|-----|------------------|---------|----|----|------------------|
| S27 | 20 | S26 and (condensat$4 near polymers) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/13 13:58 |
| S28 | 33359 | (118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 118/723e.ccls. or 118/723er.ccls. or 156/345.26.ccls. or 156/345.29.ccls. or 156/345.33. ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.43-345.47.ccls or 156/345.51.ccls.) or (137/262-264. ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590. ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599. 05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102. ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.) or (118/723i. ccls. 118/723ir.ccls. 118/723me. ccls. 118/723mr.ccls. 118/723ma. ccls. 156/345.35.ccls. 156/345.37. ccls.) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/16 10:54 |

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|---|---|---|---|---|---|---|
| S29 | 36071 | (118/715.ccls. or 118/724.ccls. or 118/725.ccls. or 118/728.ccls. or 118/50.ccls. or 118/723e.ccls. or 118/723er.ccls. or 156/345.26.ccls. or 156/345.29.ccls. or 156/345.33. ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.43-345.47.ccls or 156/345.51.ccls.) or (137/262-264. ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590. ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599. 05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102. ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.) or (118/723i. ccls. 118/723ir.ccls. 118/723me. ccls. 118/723mr.ccls. 118/723ma. ccls. 156/345.35.ccls. 156/345.37. ccls.) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/12 13:45 |
| S30 | 16 | S29 and (plasma same ((substrate or wafer) with electrostatic)) and (liner with (chamber or vessel) with heat$2) and (liner with (aluminum or titanium)) and ((support or pedestal) near$3 bias$2) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/12 14:05 |
| S31 | 39 | puech-michel.in. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 08:58 |
| S32 | 1 | S31 and (plasma same liner) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 09:01 |

| S33 | 26 | S31 and plasma | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 09:02 |
|-----|-------|----------------|---------------------------------------------------|----|----|-------------------|
| S34 | 25 | S33 not S32 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 13:45 |
| S35 | 36076 | (118/715.ccls. or 118/724.ccls. or 118/725.ccls. or 118/728.ccls. or 118/50.ccls. or 118/723e.ccls. or 118/723er.ccls. or 156/345.26.ccls. or 156/345.29.ccls. or 156/345.33. ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.43-345.47.ccls or 156/345.51.ccls.) or (137/262-264. ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590. ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599. 05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102. ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.) or (118/723i. ccls. 118/723ir.ccls. 118/723me. ccls. 118/723mr.ccls. 118/723ma. ccls. 156/345.35.ccls. 156/345.37. ccls.) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 13:41 |
| S36 | 15 | S35 and (plasma same (detach$4 with (liner or shield or protect$3))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 09:33 |

| | | | | | | |
|---|---|---|---|---|---|---|
| S37 | 16 | S35 and (plasma same ((substrate or wafer) with electrostatic)) and (liner with (chamber or vessel) with heat$2) and (liner with (aluminum or titanium)) and ((support or pedestal) near$3 bias$2) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 09:33 |
| S38 | 15 | S36 not S37 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 09:34 |
| S39 | 36076 | (118/715.ccls. or 118/724.ccls. or 118/725.ccls. or 118/728.ccls. or 118/50.ccls. or 118/723e.ccls. or 118/723er.ccls. or 156/345.26.ccls. or 156/345.29.ccls. or 156/345.33. ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.43-345.47.ccls or 156/345.51.ccls.) or (137/262-264. ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590. ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599. 05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102. ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.) or (118/723i. ccls. 118/723ir.ccls. 118/723me. ccls. 118/723mr.ccls. 118/723ma. ccls. 156/345.35.ccls. 156/345.37. ccls.) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 11:37 |
| S40 | 195 | S39 and ((plasma with chamber) and (chamber same ((liner or shield) with heat$2))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 14:06 |

| S41 | 39 | puech-michel.in. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 13:50 |
|-----|-----|------|------|-----|-----|------|
| S42 | 26 | S41 and plasma | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 13:50 |
| S43 | 195 | S40 not S42 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 13:50 |
| S44 | 1 | S39 and ((plasma with chamber) and (chamber adj ((liner or shield) with heat$2))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 14:07 |
| S45 | 195 | S39 and ((plasma with chamber) and (chamber adj ((liner or shield)))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/13 14:08 |
| S46 | 46 | ("4340462" \| "4399546" \| "4579618" \| "4701427" \| "4710428" \| "4786359" \| "4863657" \| "4948458" \| "4981551" \| "4999228" \| "5006220" \| "5085727" \| "5182059" \| "5198718" \| "5200232" \| "5241245" \| "5262029" \| "5277751" \| "5292399" \| "5304279" \| "5324411" \| "5367139" \| "5399237" \| "5401350" \| "5409563" \| "5441568" \| "5444217" \| "5460684" \| "5463525" \| "5494523" \| "5538230" \| "5556501" \| "5569356" \| "5584936" \| "5611955" \| "5725675" \| "5728253" \| "5788799" \| "5792304" \| "5863376" \| "5891350" \| "5904778" \| "6048798" \| "6129808").PN. OR ("6464843").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/13 15:03 |

| S47 | 54 | ("3951587" \| "4340462" \| "4401689" \| "4518349" \| "4598665" \| "4761134" \| "4948458" \| "4999228" \| "5006220" \| "5022979" \| "5051134" \| "5074456" \| "5182059" \| "5200232" \| "5252892" \| "5262029" \| "5292399" \| "5391275" \| "5431964" \| "5454901" \| "5460684" \| "5463524" \| "5494524" \| "5538230" \| "5569356" \| "5578129" \| "5595627" \| "5665168" \| "5712198" \| "5744401" \| "5766684" \| "5820723" \| "5837662" \| "5838529" \| "5863376" \| "5888907" \| "5892236" \| "5904778" \| "5937316" \| "6054373" \| "6068729" \| "6159297").PN. OR ("6506254").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/13 16:49 |
|-----|-----|-----|-----|-----|-----|-----|
| S48 | 2 | "7001491".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/14 16:32 |
| S49 | 2 | "6527911".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/14 16:37 |
| S50 | 2 | "20030188685".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 09:46 |
| S51 | 18 | (US-20060029542-$ or US-20050224178-$ or US-20020168467-$ or US-20030188685-$).did. or (US-6302966-$ or US-6394026-$ or US-6454898-$ or US-6506254-$ or US-6554979-$ or US-6716302-$ or US-5391275-$ or US-5595627-$ or US-6227140-$ or US-6129808-$ or US-5788799-$ or US-6562186-$ or US-6726801-$).did. or (JP-2001127049-$).did. | US-PGPUB; USPAT; JPO | OR | ON | 2007/03/15 11:08 |
| S52 | 51 | ("5338399").PN. OR ("5595627"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/15 11:31 |

3/27/2007 6:35:06 PM

Page 10

C:\Documents and Settings\jng1\My Documents\EAST\Workspaces\10516457 - Etching Reactor with Heater Liner and Method by Puech

| S53 | 36080 | (118/715.ccls. or 118/724.ccls. or 118/725.ccls. or 118/728.ccls. or 118/50.ccls. or 118/723e.ccls. or 118/723er.ccls. or 156/345.26.ccls. or 156/345.29.ccls. or 156/345.33. ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.43-345.47.ccls or 156/345.51.ccls.) or (137/262-264. ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590. ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599. 05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102. ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.) or (118/723i. ccls. 118/723ir.ccls. 118/723me. ccls. 118/723mr.ccls. 118/723ma. ccls. 156/345.35.ccls. 156/345.37. ccls.) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/20 10:34 |
| S54 | 0 | S53 and ((chamber adj (liner or shield)) same (heat$2 near infrared)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 11:39 |
| S55 | 265 | S53 and (chamber adj (liner or shield)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 14:40 |
| S56 | 4 | S55 and (heat$3 near infrared) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 12:40 |

| S57 | 22 | S53 and ((gas near flow) same (control$3 with (solenoid adj valve))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 12:04 |
|-----|----|------|------|-----|-----|------|
| S58 | 6 | S57 and plasma | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 12:04 |
| S59 | 0 | S55 and (heat$3 near thermocoaxial) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 12:41 |
| S60 | 6 | S55 and (heat$3 near ribbon) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 12:41 |
| S61 | 15 | S55 and ((liner or shield) near (attach$4 or fasten$2)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 15:01 |
| S62 | 1 | S61 and (hook or hanger) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 13:59 |
| S63 | 15 | S55 and ((liner or shield) near (attach$4 or fasten$2 or hang$2)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 14:16 |
| S64 | 0 | S63 not S61 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 14:07 |

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|---|---|---|---|---|---|---|
| S65 | 18 | S55 and ((liner or shield) near (attach$4 or fasten$2 or hang$2 or suspend$2 or hung)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 14:17 |
| S66 | 3 | S65 not S61 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 14:17 |
| S67 | 2 | "20060096532".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 14:23 |
| S68 | 0 | ("2006/0096532").URPN. | USPAT | OR | ON | 2007/03/15 14:23 |
| S69 | 0 | S63 and (teflon adj screw) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 14:40 |
| S70 | 0 | S63 and (liner near screw) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 14:40 |
| S71 | 0 | S65 and (liner near screw) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 14:41 |
| S72 | 1 | S65 and (shield near screw) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 14:41 |
| S73 | 42 | ("5223111" | "5368648" | "5419029" | "5518593" | "5538603" | "5565071").PN. OR ("5690795"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/15 14:53 |

| S74 | 5 | S73 and ((shield or liner) near (attach$2 or fasten$3 or suspend$2 or hang or hung)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 14:55 |
|-----|-----|---|---|-----|-----|---|
| S75 | 0 | S61 and teflon | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 15:01 |
| S76 | 8 | S61 and screws | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 15:02 |
| S77 | 22 | S57 not S54 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 15:02 |
| S78 | 8 | S76 not S74 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 15:31 |
| S79 | 2 | "6342277".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 15:32 |
| S80 | 18 | S53 and ((chamber with plasma) same ((liner or shield) near (attach$2 or fasten$2 or hang or hung or suspend$2))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 15:35 |
| S81 | 15 | S80 not S65 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 15:36 |

| S82 | 15 | S81 not S76 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 15:36 |
|-----|-----|-----|-----|-----|-----|-----|
| S83 | 15 | S81 not (S73 or S61) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 15:37 |
| S84 | 276 | (keyhole adj shape) with slot | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/16 10:54 |
| S85 | 173 | S84 and (fasten$2 or attach$2 or suspend$2 or hang or hung) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 22:09 |
| S86 | 28 | S84 and ((fasten$2 or attach$2 or suspend$2 or hang or hung) with keyhole) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/15 22:09 |

# EAST Search History

| S87 | 33367 | (118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 118/723e.ccls. or 118/723er.ccls. or 156/345.26.ccls. or 156/345.29.ccls. or 156/345.33. ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.43-345.47.ccls or 156/345.51.ccls.) or (137/262-264. ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590. ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599. 05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102. ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.) or (118/723i. ccls. 118/723ir.ccls. 118/723me. ccls. 118/723mr.ccls. 118/723ma. ccls. 156/345.35.ccls. 156/345.37. ccls.) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/16 10:54 |
|-----|-------|---------------------------------|------|----|----|------------------|
| S88 | 0 | S87 and ((keyhole adj shape) with slot) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/16 10:55 |
| S89 | 1 | S87 and ((keyhole adj shape)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/16 10:55 |
| S90 | 25 | S87 and ((keyhole)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/16 10:56 |

| S91 | 7 | S90 and plasma | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/16 11:07 |
|---|---|---|---|---|---|---|
| S92 | 18 | S90 not S91 | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/16 11:07 |
| S93 | 52 | S87 and (plasma and (chamber same (infrared adj lamp))) | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/16 12:46 |
| S94 | 38 | S93 and etch$3 | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/16 12:50 |
| S95 | 0 | S93 and (infrared with benefit) | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/16 12:51 |
| S96 | 0 | S93 and (infrared with good) | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/16 12:51 |
| S97 | 4 | "3880396".pn. | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/19 09:29 |

# EAST Search History

| S98 | 28 | (US-20060029542-$ or US-20050224178-$ or US-20020168467-$ or US-20060096532-$ or US-20030188685-$).did. or (US-5788799-$ or US-6227140-$ or US-6129808-$ or US-6394026-$ or US-6716302-$ or US-6454898-$ or US-6302966-$ or US-6562186-$ or US-6554979-$ or US-6506254-$ or US-5968379-$ or US-5885356-$ or US-6726801-$ or US-6120660-$ or US-5690795-$ or US-5595627-$ or US-5391275-$ or US-5935395-$ or US-4439463-$ or US-5314541-$ or US-6926803-$ or US-3880396-$). did. or (JP-2001127049-$).did. | US-PGPUB; USPAT; JPO | OR | ON | 2007/03/20 09:57 |
|---|---|---|---|---|---|---|
| S99 | 16 | S98 and ((aluminum or titanium) with (shield or liner)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/20 10:00 |
| S10 0 | 4 | S99 and ((electrostatic and bias) and (temperature same control$3)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/20 10:02 |

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|---|---|---|---|---|---|---|
| S10 1 | 36088 | (118/715.ccls. or 118/724.ccls. or 118/725.ccls. or 118/728.ccls. or 118/50.ccls. or 118/723e.ccls. or 118/723er.ccls. or 156/345.26.ccls. or 156/345.29.ccls. or 156/345.33. ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.43-345.47.ccls or 156/345.51.ccls.) or (137/262-264. ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590. ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599. 05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102. ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.) or (118/723i. ccls. 118/723ir.ccls. 118/723me. ccls. 118/723mr.ccls. 118/723ma. ccls. 156/345.35.ccls. 156/345.37. ccls.) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/20 10:37 |
| S10 2 | 96 | S101 and ((plasma same (gas with alternat$3)) same control$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/20 10:38 |
| S10 3 | 2 | S102 and ((etching with passivation) with gas) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/20 10:42 |
| S10 4 | 94 | S102 not S103 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/20 15:27 |

| S105 | 11 | S101 and ((carbon adj monoxide) with (deposition or passivation)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/20 15:28 |
|------|-----|---|---|---|---|---|
| S106 | 299 | S101 and (etch$3 with ((carbon adj monoxide) or argon)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/20 17:09 |
| S107 | 6 | S106 not argon | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/20 17:09 |